***Graphing calculator***

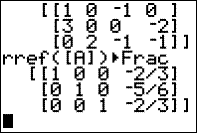
Follow these keystrokes on the TI-83 or TI-84:

1. *Press 2nd, x-1. This opens the matrix menu.*
2. *Move curser to “EDIT”. This opens to Matrices; PRESS “1” for matrix [A].*
3. *Enter the matrix dimensions: # of Rows X # of Columns*
4. *Enter the elements of the matrix going across the rows and pressing “ENTER” after each number.*
5. *Press “2nd” “Quit” to go back to home screen.*
6. *Press “2nd”, “Matrix”,” →” to “MATH”.*
7. *Press down arrow and scroll to “B” which is “rref[“ (reduce row echelon form)*
8. *Press “2nd”, “Matrix” then “1” ) That will paste matrix [A] into home screen.*
9. *To make sure your answer is in Fraction Form: Press “Math”, Pres “ENTER” or “1” for (Frac)*
10. *Press “ENTER” for the final answer.*

The answers are in terms of the last variable and equated to zero.

Each variable is in terms of last variable.

**Example of final answer: ( From a 3X4 matrix)**



a – (2/3)d = 0

b - (5/6)d = 0

c – (2/3)d = 0

By setting “d” to be the lowest common denominator, you will be able to find the least set of whole numbers that will balance the equation.

Therefore, let d =6, then a = 4, b = 5, and c = 4